

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER
PUBLICATION DATE

: 2000128922
09-05-00

APPLICATION DATE
APPLICATION NUMBER

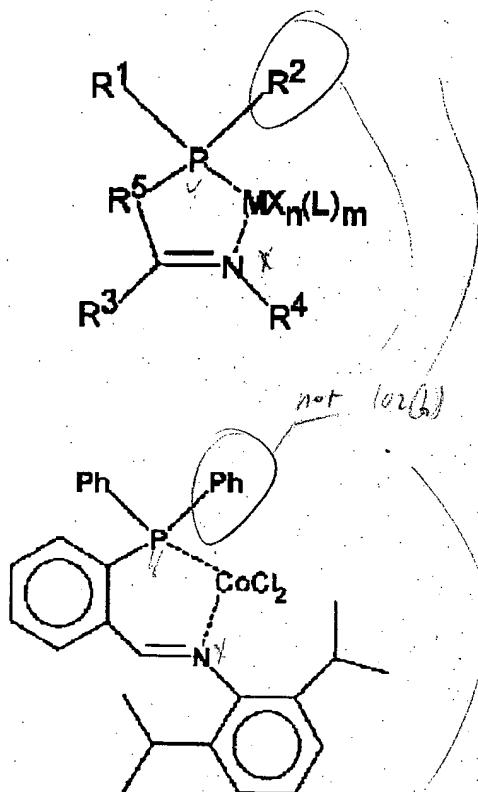
: 23-10-98
: 10302251

APPLICANT : MITSUBISHI CHEMICALS CORP;

INVENTOR : SUGANO TOSHIHIKO;

INT.CL. : C08F 4/70 C08F 10/00

TITLE : NEW TRANSITION METAL COMPLEX
COMPOUND AND CATALYTIC
COMPONENT FOR POLYMERIZING
ALPHA-OLEFIN



ABSTRACT : PROBLEM TO BE SOLVED: To obtain the subject new compound useful as a catalytic component for polymerizing an olefin.

SOLUTION: This compound is one of formula I (M is a group VIII-X transition metal in the periodic table; R₁ to R₄ are each H or a 1-24C hydrocarbon, a 1-24C hydrocarbon containing a halogen, oxygen, nitrogen or sulfur; R₅ is a divalent 1-20C hydrocarbon, or the like; L is a ligand; (m) is 0-5; X is H, a halogen or the like; (n) is 0-3; 1≤m+n≤5; a dotted line is a coordinate bond), e.g. a compound of formula II. The compound of formula I, e.g. in the case of the compound of formula II, is obtained by adding 2,6-diisopropylaniline to a benzene slurry of 2-(diphenylphosphino)benzaldehyde, refluxing the obtained mixture, adding ethanol to the refluxing mixture to provide the ligand of 2,6-diisopropyl-N-{2-(diphenylphosphino)benzylidene}aniline, adding anhydrous tetrahydrofuran to a mixture of the obtained ligand with anhydrous cobalt chloride to react, and further adding diethyl ether to the reacted product.

COPYRIGHT: (C)2000,JPO

ESI AVAILABLE